



COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONE WINTER STREET, BOSTON, MA 02108 617-292-5500

MITT ROMNEY
Governor

KERRY HEALEY
Lieutenant Governor

ELLEN ROY HERZFELDER
Secretary

ROBERT W. GOLLEDGE, Jr.
Commissioner

May 3, 2004

Re: Public Drinking Water Monitoring Waivers: New and Renewals Applications for the 2005-2007 Compliance Period

Dear Public Water Supplier:

The Massachusetts Department of Environmental Protection is providing water suppliers an opportunity to apply for monitoring waivers for the 2005-2007 compliance period. Applications for waiver renewals are available for volatile organic (VOC), synthetic organic (SOC) and inorganic compounds (IOC). Please find attached copies of the two types of applications for the 2005-2007 monitoring waiver program:

- 1) **Application for Sources WITHOUT a waiver** (New Sources Applications)
- 2) **Applications for sources WITH a current 2002-2004 Waiver** (Renewal Applications)

Applications are due by August 31, 2004. However, the department will continue to accept some source protection actions documentation until December 31, 2004. Waiver Applications can be downloaded at the DEP Website <http://www.mass.gov/dep/brp/dws/waiver.htm>. Water suppliers should go to this website for any updates to the monitoring waiver application or program.

Training. Trainings will be held May 12, 13, 18 and 21, 2004. For specific information on locations please visit http://www.masmallwatersystem.org/schedule_small_systems.php?month=5&year=04 or call the New England Water Works Association at 508-893-7979.

Please read the program update/change enclosure. This enclosure describes some important program updates/changes that may affect monitoring waiver decisions for the 2005-2007 compliance period. Review all other application requirements as described in the application package for other pertinent information. If you have any questions about the waiver program, please contact Marie Tennant of the Drinking Water Program at (617) 292-5885. We look forward to continuing to work with you to protect Massachusetts' water supplies and the public health.

Sincerely,

David Y. Terry,
Program Director,
Drinking Water Program

cc: DWP Regional Chiefs, RCAP, NeRWA, NEWWA, and MWWA

Enclosures: Waiver Program Changes/Most Common Reasons for Waiver Denials
Application Instructions
Checklist for Required Submittals – Sources without a waiver
Checklist for Required Submittals, Application Renewal – Sources with a waiver
Monitoring Waiver Application* – New/Existing Sources w/o waivers
Wellhead Protection Form – New/Existing Sources w/o waivers
Surface Water Protection Form – New/Existing Sources w/o waivers
Monitoring Waiver Renewal Application

* See list of monitoring waiver application attachments on back of page

This information is available in alternate format. Call Debra Doherty, ADA Coordinator at 617-292-5565. TDD Service - 1-800-298-2207.

DEP on the World Wide Web: <http://www.mass.gov/dep>



Printed on Recycled Paper

* Attachments to Monitoring Waiver Application – New/Existing Sources w/o waivers:

Attachment 1 Wellhead Protection Plan Checklist

Attachment 2: Sample Zone I/TWPA Wellhead Land Use Map

Attachment 3 Sample Notification Letter

Attachment 4: Clean Drinking Water is up to you

Attachment 5: NeRWA Sign Order Form

Attachment 6: Sample Indoors Posting

Attachment 7: Manifold Source Diagram

Y/DWP/waiver application 2004-29-04

MONITORING WAIVER PROGRAM
PROGRAM UPDATES AND CHANGES
2005-2007 COMPLIANCE PERIOD

General

1. **Sample schedule monitoring frequency** will not be altered while waiver applications are pending. PWS must abide by their most recent sample schedule until they receive a final determination letter from the Monitoring Waiver Program coordinator.
2. **Diquat monitoring** will be required for the first time for some public water systems for SOC compliance sampling. Previously DEP used a statewide technical criteria waiver to waive Diquat monitoring for all surface systems based on the premise that its use “**does not occur in surface waters used as drinking water supply.**” However, it has come to our attention that Diquat is being used in surface water to control aquatic weeds and its use has increased during the past decade. Public water supply surface water sources that are determined to be vulnerable to Diquat contamination based on use data will not be eligible for Diquat monitoring waivers. The Diquat technical criteria waiver will continue for all groundwater sources. As a result, the department will require testing for this herbicide in specified surface water sources, based on use, while other statewide technical criteria SOC's will continue to be waived from monitoring. E.g. Diquat (ground water), DBCP (surface waters), EDB (surface waters), Endothall (surface waters), Glyphosate (ground and surface waters), and Dioxin (ground and surface waters)
3. **IOC Detections:** Sources with IOC detections within ½ the MCL will not be granted IOC waivers for any affected analyte.
4. **Sodium:** Sodium will no longer be part of the monitoring waiver program, in accordance with 141.41 CRF – Special Monitoring for Sodium. Routine monitoring will be annually for surface waters and every 3 years for ground waters, in accordance with 310 CMR 22.06A (2) (a)-(b).
5. **Arsenic:** As provided by the EPA, starting in January 2006 the reporting of arsenic levels will require a lower detection limit. The acceptable method detection limit is expected to be near five micrograms/Liter (parts per billion). This means that the 9-year waiver for IOCs that were recently granted must be revisited for compliance with the lower arsenic MDL. As a result, if the IOC results reported during the current compliance period do not meet the new more stringent arsenic MDL standard, the department will require additional arsenic testing using an approved analytical methodology that meets the new arsenic MDL standard.

Source Protection

1. For the 2005-2007 compliance period, Waiver Renewal Applications require documentation of planned source protection accomplishments during the 2003-2004 compliance period for each source waiver requested. A December 31, 2004 deadline has been established for the receipt of this information.
2. Groundwater sources pumping 100,000 gallon per day or greater are required to comply with Massachusetts Drinking Water, Wellhead Protection regulations (310 CMR 22.21).
3. Surface water sources serving 25,000 people or greater are required to develop a Surface Water Protection Plan meeting DEP criteria.

Most Common Reasons for Waiver Denials

1. Incomplete waiver applications will not be processed. All forms must be submitted in **duplicate**, accompanied with the required documentation and signature.
2. Groundwater sources with:
 - a. septic system(s) in Zone I
 - b. fuel storage in Zone I (aboveground or underground storage tanks)
 - c. hazardous materials storage in Zone I
 - d. auto repair in Zone I
3. Groundwater sources with dry cleaners, gas stations, petroleum storage tank farms, or industrial land uses in Zone II/IWPA are ineligible for VOC waivers.
4. Incomplete source protection information (Technical assistance is available to small systems serving 10,000 or less from the Northeast Rural Water Association (1-800-556-3092) or Rural Community Assistance Program (1-800-488-1969).)
5. Sources that have had **any** detect of a VOC (excluding the four THM compounds -- chloroform, bromoform, chlorodibromomethane, and bromodichloromethane) are no longer eligible for VOC waivers.
6. Monitoring results that are not reported on DEP Approved monitoring forms.
7. Monitoring results from laboratories not certified by DEP for one or more analytes – for the date the sample is analyzed. (Suppliers should use the DEP LabCert database – NOW AVAILABLE on the DEP Wall Experimentation Station Website (<http://www.mass.gov/dep/bspt/wes/wespubs.htm>) as a first step for identifying certified labs and the analytes they are qualified to test. The DEP database provides up-to-date information for any laboratory queried, on a lab's certification status for one or more potable water analytes.)
8. Monitoring results submitted and reported by laboratories for one or more analytes that do not comply with 310 CMR 22.00 compliance requirements for methods used on the date of analysis, method detection limits, sample collection holding time, and sample extraction holding times.
9. Incomplete baseline data or no data in support of a waiver application.
10. Recent detection of a compound for which a waiver is sought. (Eligibility for a waiver following detection requires water suppliers to submit four consecutive quarterly samples, followed by three consecutive annual samples for which the compound is not detectable (ND)).

CHECKLIST FOR REQUIRED SUBMITTALS
MONITORING WAIVER APPLICATION
Sources WITHOUT a waiver

2005-2007 COMPLIANCE PERIOD

SOURCE PROTECTION INFORMATION

- *Groundwater Sources:*

- ☐ 1. Completed Monitoring Waiver Application – Water Quality
 - ☐ source diagram (manifolded systems only) (see Section F).
 - ☐ DEP PWS ID number noted on the top right corner of each page.
- ☐ 2. Completed Source Protection Application (Wellhead Protection Form), including:
 - ☐ separate Land Use Inventory checklist (see Section C) for *each* source.
 - ☐ DEP PWS ID number and application date on the top right corner of each page.
- ☐ 3. Notification Memo or Letter (sources pumping <100,000 gpd only) (see Section D).
- ☐ 4. Wellhead Land Use Map (sources pumping <100,000 gpd only) (see Section D).
 - ☐ location of signs noted on the land use map (see Section D).
- ☐ 5. Copy of Regulatory Control with effective date (sources pumping ≥100,000 gpd only).
- ☐ 6. Copy of Aquifer Protection District map (sources pumping ≥100,000 gpd only).
 - ☐ wells under consideration for waiver identified on map.

- *Surface Water Sources:*

- ☐ 1. Completed Monitoring Waiver Application – Water Quality
 - ☐ source diagram (manifolded systems only) (see Section F).
 - ☐ DEP PWS ID number noted on the top right corner of each page.
- ☐ 2. Completed Source Protection Application (Surface Water Protection Form), including:
 - ☐ separate Land Use Inventory checklist (see Section C) for *each* source.
 - ☐ DEP PWS ID number and application date noted on the top right corner of each page.

BASELINE MONITORING DATA REQUIREMENTS

- ☐ VOC Waiver: Four consecutive quarterly sample results on DEP approved forms from each source since January 1, 2002.
- ☐ SOC Waiver: One sample result on DEP approved forms for each source, except compounds covered by statewide technical criteria waivers) showing no detections.
- ☐ IOC Waiver (Depends on the source type)
 - Groundwater Systems. One sample resulted collected since January 1, 2002 for each source.
 - Surface Water Systems: Three annual samples results collected during 2002-2004.

As a cost saving option, public water suppliers may request certified laboratory composite samples from more than one source. Laboratories may composite up to five sources, provided that the detection level is less than 1/5 of the MCL. Suppliers should contact their laboratory to insure the use of appropriate Minimum Detection Limits (MDLs) for composite sampling.

CHECKLIST FOR REQUIRED SUBMITTALS
MONITORING WAIVER APPLICATION RENEWAL
Sources WITH a Waiver
SOURCE PROTECTION REPORTING

2005-2007 COMPLIANCE PERIOD

SOURCE PROTECTION INFORMATION

- *Surface Water Sources:*
 - ☐ 1. Completed Monitoring Waiver Renewal Application – Source Protection Reporting
 - ☐ DEP PWS ID number noted on the top right corner of each page.
 - ☐ 2. Completed Surface Water Protection Accomplishments Checklist:
 - ☐ separate checklist (see Section C) for *each* source, unless applicable to all sources.
 - ☐ DEP PWS ID number and date of application noted on the top right corner of each page
 - ☐ documentation is required for each source protection accomplishment checked.
 - ☐ 3. Completed Land Use Inventory (see Section E) for each source.
- *Groundwater Sources:*
 - ☐ 1. Completed Monitoring Waiver Renewal Application – Source Protection Reporting
 - ☐ DEP PWS ID number and date noted on the top right corner of each page.
 - ☐ 2. Completed Wellhead Protection Accomplishments Checklist:
 - ☐ separate checklist (see Section D) for *each* source, unless applicable to all sources.
 - ☐ DEP PWS ID number and date of application noted on the top right corner of each page
 - ☐ documentation is required for each source protection accomplishment checked.
 - ☐ 3. Completed Land Use Inventory (see Section E) for each source.

BASELINE MONITORING DATA REQUIREMENTS

- *VOC Waiver:*
 - ☐ One sample will be scheduled during the January 1, 2005 – December 31, 2007 compliance period for all VOC waivers tentatively approved for renewal.
- *SOC Waiver:*
 - ☐ SOC testing is not required with a waiver renewal approval, unless otherwise specified.
- *IOC Waiver:*
 - ☐ IOC testing is not required with a waiver renewal approval, unless otherwise specified.